

Abstract

The invention includes a process for converting biomass into C₇-C₁₀ alkylbenzenes useful
5 as blending components for petroleum or petroleum derived fuels. The process includes a base
catalyzed depolymerization of lignin within the biomass, followed by hydroprocessing of the
depolymerized lignin to C₇-C₁₀ alkylbenzenes. The C₇-C₁₀ alkylbenzenes are useful for
enhancing the octane level of petroleum or petroleum-derived fuels, such as gasoline. In
addition, the C₇-C₁₀ alkylbenzenes are useful as intermediates in the production of numerous
10 organic chemicals.